

App. No. 09/976,597  
Amendment A

Amendments to the Claims

Claims 1-27 (Canceled)

Claim 28 (Original): A disposable light treatment chamber comprising:

a flexible flow chamber transmissive to at least 1% of a light treatment having at least one wavelength within a range of 170 to 2600 nm, the flexible flow chamber adapted to allow a fluid to be flowed therethrough and illuminated with the light treatment such that pathogens within the fluid are deactivated by the light treatment;

an input port formed at one part of the flexible flow chamber and adapted to receive a flow of the fluid to be treated; and

an output port formed at another part of the flexible flow chamber adapted to receive the flow of the fluid having been treated with the light treatment.

Claim 29 (Original): The chamber of Claim 28 further comprising a flexible body portion, the flow chamber formed within the flexible body portion.

Claim 30 (Original): The chamber of Claim 29 wherein the flexible body portion is substantially flat.

Claim 31 (Original): The chamber of Claim 30 wherein the flexible body portion and the flexible flow chamber comprise two or more sheets of light transmissive material attached together, the flexible flow chamber formed between a portion of the two or more sheets of the light transmissive material.

App. No. 09/976,597

Amendment A

Claim 32 (Original): The chamber of Claim 28 wherein the flexible flow chamber is comprised of a light transmissive plastic material.

Claim 33 (Original): The chamber of Claim 28 wherein the flexible flow chamber is comprised of a light transmissive material selected from a group consisting of: a polyolefin, a fluorinated polymer, a halogenated polymer, a nylon, and combinations thereof.

Claim 34 (Original): The chamber of Claim 28 wherein the flexible flow chamber is comprised of a light transmissive material selected from a group consisting of: FEP (flourinated ethylene-propylene perfluoro (ethylene-propylene)), EVA (ethylene vinyl acetate), PTFE (polytetrafluoroethylene), PFA (perfluoro (alkoxy alkane)), ethyl vinyl alcohol, polyvinylidene fluoride (PVDF), polyvinyllidine chloride (PVDC): Saran, and polyamides, such as nylon and polychlorotrifluoroethylene (PCTFE): Aclar.

Claim 35 (Original): The chamber of Claim 28 wherein the flow chamber is substantially flat without the fluid flowed therethrough and wherein the fluid expands the flow chamber as the fluid flows therethrough.

Claim 36 (Original): The chamber of Claim 28 wherein the flexible flow chamber is adapted to be restrained between two support structures on either side of the flexible flow chamber.

Claim 37 (Original): The chamber of Claim 28 wherein the disposable treatment chamber is designed to be used once and

App. No. 09/976,597  
Amendment A

discarded.

Claim 38 (Original): The chamber of Claim 28 wherein the input port has a substantially circular cross sectional profile and the flexible flow chamber has a substantially flat cross sectional profile, the chamber further comprising:

a taper section formed between the input port and the flexible flow chamber, wherein the taper section is shaped to transition a substantially circular fluid flow profile into a substantially flat fluid flow profile such that the fluid flow through the flexible flow chamber is substantially laminar having approximately the same fluid flow velocity across the profile of the flexible flow chamber.

Claims 39-53 (canceled)